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Diagram illustrating the structure of the *Salmonella typhimurium* O-antigen, showing the core fucose (L3) and the repeating disaccharide unit (L7, L9).

The structure is composed of the following components and linkages:

- Core fucose (L3):**
  - NeuAc -  $\alpha 2,3$  - Gal -  $\beta 1,4$  - GlcNAc -  $\beta 1,3$  - Gal
  - Enzymes involved: *lst* (NeuAc), *lgtB* (Gal), *lgtA* (GlcNAc)
- Repeating disaccharide unit (L7, L9):**
  - Gal -  $\beta 1,4$  - Glc -  $\beta 1,4$  - Hep -  $\alpha 1,3$  - Hep -  $\alpha 1,2$  - GlcNAc
  - Enzymes involved: *lgtC* (Gal), *galE* (Glc), *icsB* (Glc), *rfaC* (Hep), *lfi* (Hep), *icsA* (GlcNAc)
- Other components:**
  - Kdo -  $\alpha 2,4$  - Lipid A

The diagram indicates that the O-antigen is MAb B5 positive.

Fig. 1a

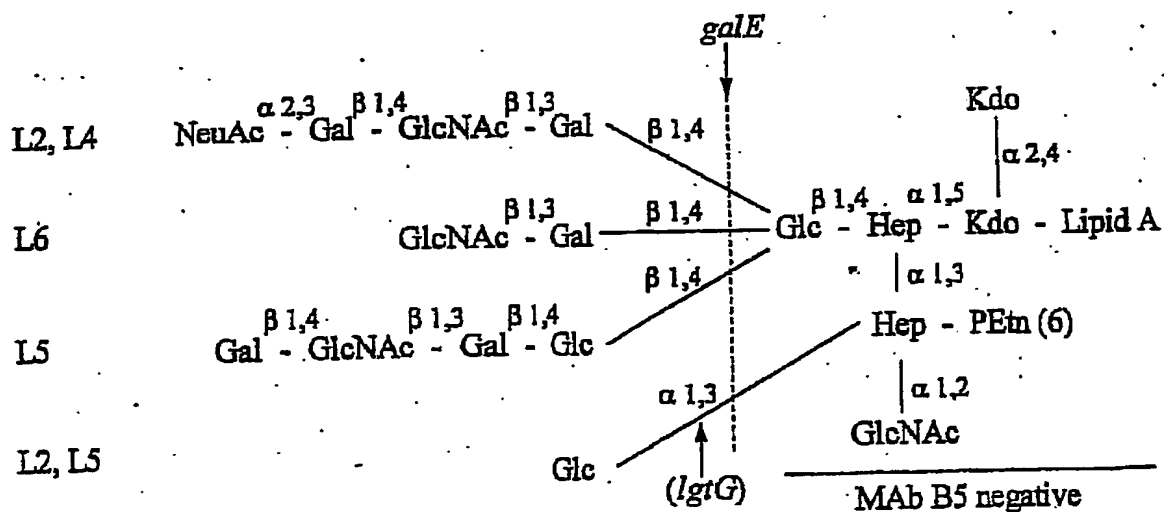
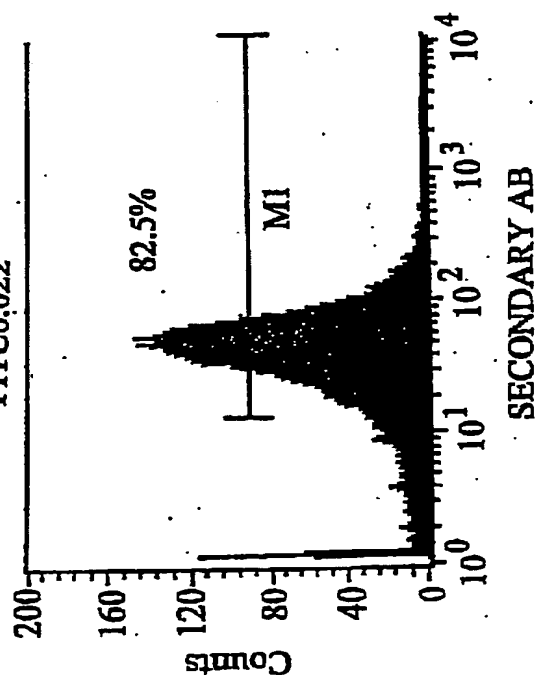


Fig. 1 b

15/15

MC58

FITC6.022

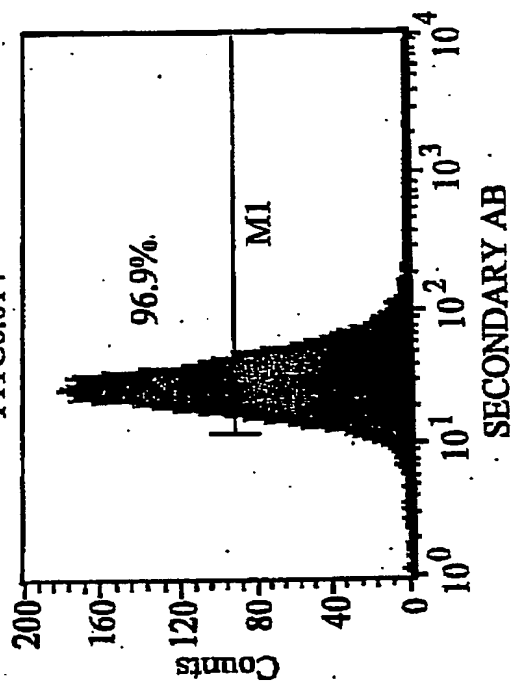


Live mab B5  
82.5%

Fig. 15a

*galE* mutant

FITC6.014



Live mab B5  
96.9%

Fig. 15b